



Missouri September Production Forecast



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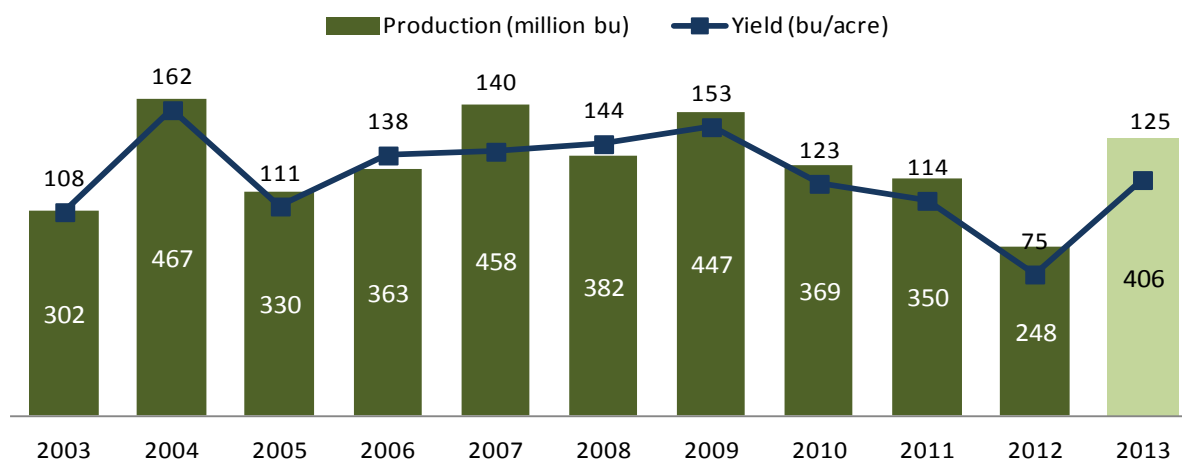
Heat and Drought Impact Yields

Northern Half of Missouri Experiencing Drought Conditions

COLUMBIA, MO - With little rain over the past two months, drought conditions, which began in mid-July, intensified over northern Missouri in the last month. This marks the fourth year in a row the state has experienced drought. Dryness has spread through much of the state with 81% of the state reporting short to very short topsoil moisture as of September 8. As a result, crop conditions have declined and yield forecasts for all major crops have been decreased from the August 1 forecast with the exception of rice, a crop entirely irrigated. Overall, yields are still well above last year's yields when the drought was much more intense, widespread and longer in duration (see chart, next page).

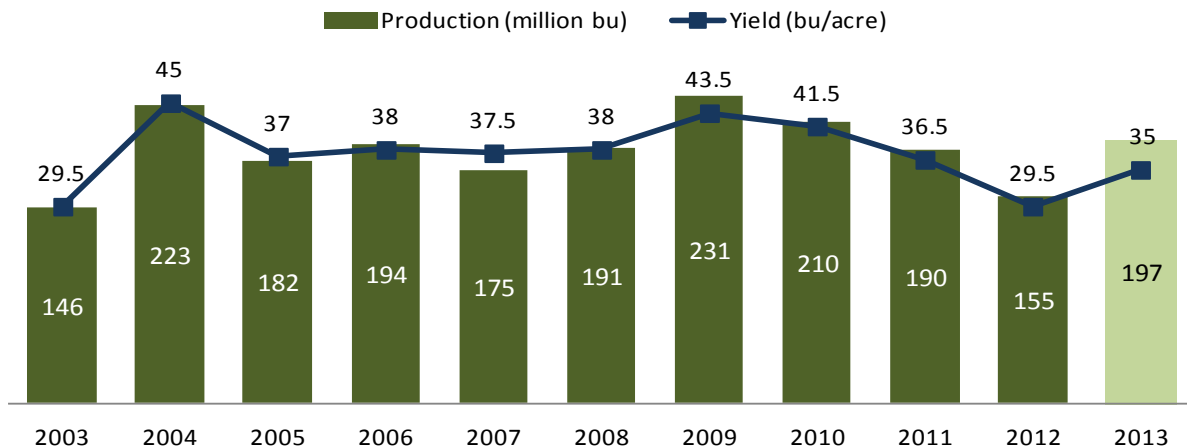
The **Missouri corn yield** forecast was reduced to 125 bushels per acre, 5 bushels below the August 1 forecast. This is below the ten year average yield of 127 and the fourth year in a row below the yield trend. Corn planted acres are estimated at 3.45 million acres and acres harvested for grain are forecast at 3.25 million acres, unchanged from August 1. The resulting forecast production for the state is 406.3 million bushels, 64 percent more than 2012 and the fourth highest total for Missouri.

Missouri Corn Yield and Production



The **soybean yield** in **Missouri** is forecast at **35** bushels per acre, 4 bushels below the August 1 forecast. Harvested acres are expected to total 5.64 million acres out of 5.7 million planted. **Production** is forecast at **197.4** million bushels, 27 percent above last year and the fourth highest soybean production total for Missouri.

Missouri Soybean Yield and Production

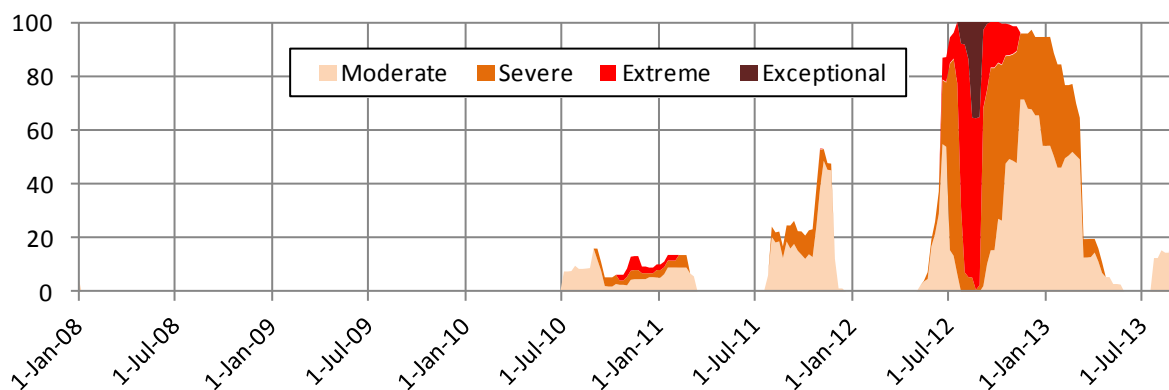


The **cotton** planted and harvested acres estimates were reduced 20,000 from the August 1 estimate to 250 and 241 thousand acres respectively. Likewise, the yield was reduced to 1036 pounds per acre versus 1103 on August 1, still the fifth highest yield on record. The resulting production of 520 thousand 480-pound bales would be 211 thousand bales below last year. Planted acres of **Missouri rice** are estimated at 156 thousand acres and harvested acres are forecast at 153 thousand acres. The yield forecast was increased 20 pounds to a record yield of 7,010 pounds. If realized, this would result in a production of 10.7 million hundredweight.

The **Missouri sorghum** planted and harvested acres estimates are unchanged at 90 thousand acres and 80 thousand acres, respectively. Yield is reduced by 8 bushels to 74 bushels per acre, still 16 bushels per acre above 2012. Production of 5.92 million bushels is expected, the most since 2009.

Missouri has experienced drought each of the last four years in July and August. This has helped keep yields from reaching their full potential.

Percent of Missouri in Drought Since 2008



Source: Drought Monitor, a Drought Mitigation, USDA, NOAA partnership.

U.S. Highlights: **Corn** production is forecast at 13.8 billion bushels, up less than 1 percent from the August forecast and up 28 percent from 2012. If realized, this will be a new record production for the United States. Based on conditions as of September 1, yields are expected to average 155.3 bushels per acre, up 0.9 bushels from the August forecast and 31.9 bushels above the 2012 average. If realized, this will be the highest average yield since 2009. Area harvested for grain is forecast at 89.1 million acres, unchanged from the August forecast but up 2 percent from 2012.

Soybean production is forecast at 3.15 billion bushels, down 3 percent from August but up 4 percent from last year. If realized, production will be the fourth largest on record. Based on September 1 conditions, yields are expected to average 41.2 bushels per acre, down 1.4 bushels from last month but up 1.6 bushels from last year. Area for harvest in the United States is forecast at 76.4 million acres, unchanged from August but up slightly from 2012.

All **cotton** production is forecast at 12.9 million 480-pound bales, down 1 percent from last month and down 26 percent from last year. Yield is expected to average 796 pounds per harvested acre, down 91 pounds from last year. Upland cotton production is forecast at 12.3 million 480-pound bales, down 26 percent from 2012. Pima cotton production, forecast at 625,500 bales, is down 20 percent from last year. Producers expect to harvest 7.78 million acres of all cotton, down 17 percent from 2012. This harvested total includes 7.58 million acres of Upland cotton and 198,800 acres of Pima cotton.

The September yield and production forecasts are based on two surveys conducted by USDA-NASS: a farm operator survey and; for corn, soybeans and wheat; an objective yield survey. The farm operator survey was conducted primarily by telephone with some use of mail, internet and personal interviewers. For the objective yield survey, the number of plants is recorded along with other measurements that provide information to forecast the number of ears, pods or heads and their weight. The counts are used with similar data from previous years to develop a projected biological yield. The average harvesting loss is subtracted to obtain a net yield. The plots are revisited each month until crop maturity when the fruit are harvested and weighed.

US report: <http://usda01.library.cornell.edu/usda/current/CropProd/CropProd-09-12-2013.pdf>
USDA-NASS website: www.nass.usda.gov

Missouri Corn and Soybean Yield and Production by District

Corn								
AREA	ACRES PLANTED (1000s)		ACRES HARVESTED (1000s)		YIELD (bu/acre)		PRODUCTION (1000 bu)	
	2012	2013*	2012	2013*	2012	2013*	2012	2013*
NW	824	840	782	810	85.2	126.0	66,600	102,340
NC	418	400	388	390	59.3	111.0	23,000	43,440
NE	649	580	587	520	44.5	113.0	26,150	58,670
WC	369	370	340	340	62.6	100.0	21,300	34,070
C	418	410	370	390	64.7	126.0	23,950	49,270
EC	259	210	233	190	52.1	134.0	12,150	25,460
SW	154	120	117	115	70.1	98.0	8,200	11,260
SC	26	30	18	25	91.7	128.0	1,650	3,190
SE	483	490	465	470	138.7	167.0	64,500	78,550
STATE	3,600	3,450	3,300	3,250	75.0	125.0	247,500	406,250

Soybeans								
AREA	ACRES PLANTED (1000s)		ACRES HARVESTED (1000s)		YIELD (bu/acre)		PRODUCTION (1000 bu)	
	2012	2013*	2012	2013*	2012	2013*	2012	2013*
NW	1,033	1,060	1,011	1,055	32.0	34.0	32,325	36,100
NC	798	760	778	755	27.3	31.5	21,205	23,800
NE	825	850	812	840	26.2	30.5	21,276	25,500
WC	609	680	589	665	24.6	31.5	14,518	20,900
C	571	640	550	635	26.2	36.5	14,434	23,100
EC	344	350	334	345	28.3	36.5	9,441	12,600
SW	190	240	179	235	24.4	31.5	4,376	7,400
SC	49	50	47	50	35.2	40.0	1,656	2,000
SE	981	1,070	960	1,060	37.4	43.5	35,939	46,000
STATE	5,400	5,700	5,260	5,640	29.5	35.0	155,170	197,400

*September 1